

WEST Search History

DATE: Friday, April 01, 2005

Hide?	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L46	5656930 and (permeability or permeabl\$3)	14
<input type="checkbox"/>	L45	US20040140801A1	1
<input type="checkbox"/>	L44	L43 and (permeability or permeabl\$3)	5
<input type="checkbox"/>	L43	3479581	11
<input type="checkbox"/>	L42	L37 and ((horizontal\$3 or vertical\$3 or transvers\$5 or longitud\$4 or parallel or perpendicular\$2 or longitudinal\$2) with (resistiv\$5) with (permeability or permeabl\$3) with (ratio))	5
<input type="checkbox"/>	L41	L40 and ((horizontal\$3 or vertical\$3 or transvers\$5 or longitud\$4 or parallel or perpendicular\$2 or longitudinal\$2) with (resistiv\$5) with (permeability or permeabl\$3) with (ratio))	4
<input type="checkbox"/>	L40	L39 and ((horizontal\$3 or vertical\$3 or transvers\$5 or longitud\$4 or parallel or perpendicular\$2 or longitudinal\$2) with (resistiv\$5) with (permeability or permeabl\$3))	36
<input type="checkbox"/>	L39	L38 and (ratio)	120
<input type="checkbox"/>	L38	L37 and (formation or wellbore or "well bore" or well-bore or borehole or bore-hole or "bore hole" or earth or petrophysical\$3 or petro-physical\$3 or "petro physical\$3" or sand or clay or shale or grain)	189
<input type="checkbox"/>	L37	L36 and ((horizontal\$3 or vertical\$3 or transvers\$5 or longitud\$4 or parallel or perpendicular\$2 or longitudinal\$2) with (resistiv\$5))	347
<input type="checkbox"/>	L36	L35 and ((horizontal\$3 or vertical\$3 or transvers\$5 or longitud\$4 or parallel or perpendicular\$2 or longitudinal\$2) with (permeability or permeabl\$3))	1590
<input type="checkbox"/>	L35	L34 and (permeability or permeabl\$3)	13344
<input type="checkbox"/>	L34	L33 and (resistiv\$5)	159408
<input type="checkbox"/>	L33	(horizontal\$3 or vertical\$3 or transvers\$5 or longitud\$4 or parallel or perpendicular\$2 or longitudinal\$2)	7219132
<input type="checkbox"/>	L32	(horizontal\$3 or vertical\$3 or transvers\$5 or longitud\$7 or parallel or perpendicular\$2)	7223056
	<i>DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L31	20020101235	2
	<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L30	6005389 and ((horizontal\$3 or vertical\$3 or transvers\$5 or longitud\$7 or parallel or orthogonal\$3 or perpendicular\$3) with (resistiv\$5))	3
<input type="checkbox"/>	L29	L28 not L26	3
<input type="checkbox"/>	L28	L27 and (Waxman or Smits or Thomas or Stieber)	11

<input type="checkbox"/>	L27	L22 and ((magnetic adj resonance) or MRI or NMR)	54
<input type="checkbox"/>	L26	L25 and ((magnetic adj resonance) or MRI or NMR)	8
<input type="checkbox"/>	L25	L24 and (coarse or fine)	18
<input type="checkbox"/>	L24	L23 and (Waxman or Smits or Thomas or Stieber)	28
<input type="checkbox"/>	L23	L22 and (bulk or content)	204
<input type="checkbox"/>	L22	L21 and (estima\$6 or approximat\$6)	302
<input type="checkbox"/>	L21	L20 and (induct\$5)	329
<input type="checkbox"/>	L20	L19 and (model\$4 or simulat\$6)	734
<input type="checkbox"/>	L19	L18 and (density or porosity or permeability or bvi or irreducible or bound)	1838
<input type="checkbox"/>	L18	L17 and (formation or wellbore or "well bore" or well-bore or borehole or bore-hole or "bore hole" or earth or petrophysical\$3 or petro-physical\$3 or "petro physical\$3" or sand or clay or shale or grain)	2957
<input type="checkbox"/>	L17	L16 and (water or fluid\$4 or liquid\$4 or "h20" or oil)	5588
<input type="checkbox"/>	L16	((horizontal\$3 or vertical\$3 or transvers\$5 or longitud\$7 or parallel or orthogonal\$3 or perpendicular\$3) with (resistiv\$5))	16961
<input type="checkbox"/>	L15	L14 and ((horizontal\$3 or vertical\$3 or transvers\$5 or longitud\$7) with (resistiv\$5))	3
<input type="checkbox"/>	L14	6255819	12
<input type="checkbox"/>	L13	L12 and ((magnetic adj resonance) or MRI or NMR)	8
<input type="checkbox"/>	L12	L11 and ((horizontal\$3 or vertical\$3 or transvers\$5 or longitud\$7) with (resistiv\$5))	9
<input type="checkbox"/>	L11	L10 and (bulk or content)	155
<input type="checkbox"/>	L10	L9 and (Waxman or Smits or Thomas or Stieber)	167
<input type="checkbox"/>	L9	L8 and (model\$4 or simulat\$6)	1225
<input type="checkbox"/>	L8	L7 and (coarse or fine)	2043
<input type="checkbox"/>	L7	L6 and (density or porosity or permeability or bvi or irreducible or bound)	4653
<input type="checkbox"/>	L6	L5 and (estima\$6 or approximat\$6)	5577
<input type="checkbox"/>	L5	L4 and (induct\$5)	7280
<input type="checkbox"/>	L4	L3 and (formation or wellbore or "well bore" or well-bore or borehole or bore-hole or "bore hole" or earth or petrophysical\$3 or petro-physical\$3 or "petro physical\$3" or sand or clay or shale or grain)	28361
<input type="checkbox"/>	L3	L2 and (water or fluid\$4 or liquid\$4 or "h20" or oil)	47841
<input type="checkbox"/>	L2	L1 and (resistiv\$5)	89587
<input type="checkbox"/>	L1	((horizontal\$3 or vertical\$3 or transvers\$5 or longitud\$7)	4096032

END OF SEARCH HISTORY

Hit List

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Search Results - Record(s) 1 through 36 of 36 returned.

☐ 1. Document ID: US 20050030803 A1

Using default format because multiple data bases are involved.

L40: Entry 1 of 36

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050030803

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050030803 A1

TITLE: High permeability layered films to reduce noise in high speed interconnects

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Forbes, Leonard	Corvallis	OR	US	
Ahn, Kie Y.	Chappaqua	NY	US	
Akram, Salman	Boise	ID	US	

US-CL-CURRENT: 365/202

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Draw	Draw C
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☐ 2. Document ID: US 20040221983 A1

L40: Entry 2 of 36

File: PGPB

Nov 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040221983

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040221983 A1.

TITLE: Apparatus for sampling and logging on all producing zones of a well

PUBLICATION-DATE: November 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ma, Yong	Xian City Shanxi Peovince		CN	
Ma, Jianguo	Xian City Shanxi Peovince		CN	

US-CL-CURRENT: 166/100; 166/162, 166/264, 166/66

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 3. Document ID: US 20040140801 A1

L40: Entry 3 of 36

File: PGPB

Jul 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040140801

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040140801 A1

TITLE: Combined characterization and inversion of reservoir parameters from nuclear, NMR and resistivity measurements

PUBLICATION-DATE: July 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schoen, Juergen S.	Leoben	TX	AT	
Fanini, Otto N.	Houston	TX	US	
Georgi, Daniel	Houston		US	

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 4. Document ID: US 20030174529 A1

L40: Entry 4 of 36

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030174529

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030174529 A1

TITLE: High permeability layered films to reduce noise in high speed interconnects

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Forbes, Leonard	Corvallis	OR	US	
Ahn, Kie Y.	Cappaqua	NY	US	
Akram, Salman	Boise	ID	US	

US-CL-CURRENT: 365/51; 365/63

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 5. Document ID: US 20020101235 A1

PGPUB-DOCUMENT-NUMBER: 20020101235
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020101235 A1

TITLE: Combined characterization and inversion of reservoir parameters from nuclear, NMR and resistivity measurements

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schoen, Juergen S.	Leoben	TX	AT	
Fanini, Otto N.	Houston	TX	US	
Georgi, Daniel	Houston		US	

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Index	Drawings
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☐ 6. Document ID: US 6686736 B2

L40: Entry 6 of 36

File: USPT

Feb 3, 2004

US-PAT-NO: 6686736
DOCUMENT-IDENTIFIER: US 6686736 B2

TITLE: Combined characterization and inversion of reservoir parameters from nuclear, NMR and resistivity measurements

DATE-ISSUED: February 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schoen, Juergen S.	Leoben			AT
Fanini, Otto N.	Houston	TX		
Georgi, Daniel	Houston	TX		

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Index	Drawings
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☐ 7. Document ID: US 6603313 B1

L40: Entry 7 of 36

File: USPT

Aug 5, 2003

US-PAT-NO: 6603313
DOCUMENT-IDENTIFIER: US 6603313 B1

TITLE: Remote reservoir resistivity mapping

DATE-ISSUED: August 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Srnka; Leonard J.	Houston	TX		

US-CL-CURRENT: 324/354; 324/359, 702/5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 8. Document ID: US 6446736 B1

L40: Entry 8 of 36

File: USPT

Sep 10, 2002

US-PAT-NO: 6446736

DOCUMENT-IDENTIFIER: US 6446736 B1

TITLE: Non-rotating sensor assembly for measurement-while-drilling applications

DATE-ISSUED: September 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruspe; Thomas	Wienhausen			DE
Krueger; Volker	Celle			DE

US-CL-CURRENT: 175/40; 166/66

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 9. Document ID: US 6443227 B1

L40: Entry 9 of 36

File: USPT

Sep 3, 2002

US-PAT-NO: 6443227

DOCUMENT-IDENTIFIER: US 6443227 B1

TITLE: Azimuth control of hydraulic vertical fractures in unconsolidated and weakly cemented soils and sediments

DATE-ISSUED: September 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hocking; Grant	Alpharetta	GA		
Wells; Samuel L.	Lawrenceville	GA		

US-CL-CURRENT: 166/250.1; 166/298, 166/308.1, 405/129.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings
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☐ 10. Document ID: US 6351119 B1

L40: Entry 10 of 36

File: USPT

Feb 26, 2002

US-PAT-NO: 6351119

DOCUMENT-IDENTIFIER: US 6351119 B1

**** See image for Certificate of Correction ****

TITLE: Magnetic detecting element utilizing magnetic impedance effect

DATE-ISSUED: February 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kawase; Masahiro	Saitama-ken			JP

US-CL-CURRENT: 324/249; 324/260, 360/110

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings
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☐ 11. Document ID: US 6344746 B1

L40: Entry 11 of 36

File: USPT

Feb 5, 2002

US-PAT-NO: 6344746

DOCUMENT-IDENTIFIER: US 6344746 B1

TITLE: Method for processing the lapse measurements

DATE-ISSUED: February 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chunduru; Raghu K.	Houston	TX		
Mezzatesta; Alberto G.	Houston	TX		
Busch; Rainer	Missouri City	TX		

US-CL-CURRENT: 324/339; 324/335, 324/338, 702/7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings
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☐ 12. Document ID: US 6330914 B1

L40: Entry 12 of 36

File: USPT

Dec 18, 2001

US-PAT-NO: 6330914

DOCUMENT-IDENTIFIER: US 6330914 B1

TITLE: Method and apparatus for tracking hydraulic fractures in unconsolidated and weakly cemented soils and sediments

DATE-ISSUED: December 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hocking; Grant	Alpharetta	GA		
Wells; Samuel L.	Lawrenceville	GA		

US-CL-CURRENT: 166/250.1; 166/66, 324/357

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 13. Document ID: US 6216783 B1

L40: Entry 13 of 36

File: USPT

Apr 17, 2001

US-PAT-NO: 6216783

DOCUMENT-IDENTIFIER: US 6216783 B1

TITLE: Azimuth control of hydraulic vertical fractures in unconsolidated and weakly cemented soils and sediments

DATE-ISSUED: April 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hocking; Grant	Alpharetta	GA		
Wells; Samuel L.	Lawrenceville	GA		

US-CL-CURRENT: 166/250.1; 166/298, 166/308.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 14. Document ID: US 5889403 A

L40: Entry 14 of 36

File: USPT

Mar 30, 1999

US-PAT-NO: 5889403

DOCUMENT-IDENTIFIER: US 5889403 A

**** See image for Certificate of Correction ****

TITLE: Magnetic detecting element utilizing magnetic impedance effect

DATE-ISSUED: March 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kawase; Masahiro	Saitama-ken			JP

US-CL-CURRENT: 324/249; 324/260, 360/110

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☐ 15. Document ID: US 5784530 A

L40: Entry 15 of 36

File: USPT

Jul 21, 1998

US-PAT-NO: 5784530

DOCUMENT-IDENTIFIER: US 5784530 A

TITLE: Iterated electrodes for oil wells

DATE-ISSUED: July 21, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bridges; Jack E.	Park Ridge	IL		

US-CL-CURRENT: 392/306; 166/60

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☐ 16. Document ID: US 5751895 A

L40: Entry 16 of 36

File: USPT

May 12, 1998

US-PAT-NO: 5751895

DOCUMENT-IDENTIFIER: US 5751895 A

TITLE: Selective excitation of heating electrodes for oil wells

DATE-ISSUED: May 12, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bridges; Jack E.	Park Ridge	IL		

US-CL-CURRENT: 392/306

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☐ 17. Document ID: US 5621845 A

L40: Entry 17 of 36

File: USPT

Apr 15, 1997

US-PAT-NO: 5621845
DOCUMENT-IDENTIFIER: US 5621845 A

TITLE: Apparatus for electrode heating of earth for recovery of subsurface volatiles and semi-volatiles

DATE-ISSUED: April 15, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bridges; Jack E.	Park Ridge	IL		
Sresty; Guggilam C.	Burbank	IL		

US-CL-CURRENT: 392/303; 166/60, 219/772, 219/780, 392/306, 392/338

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 18. Document ID: US 5586213 A

L40: Entry 18 of 36

File: USPT

Dec 17, 1996

US-PAT-NO: 5586213
DOCUMENT-IDENTIFIER: US 5586213 A

TITLE: Ionic contact media for electrodes and soil in conduction heating

DATE-ISSUED: December 17, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bridges; Jack E.	Park Ridge	IL		
Sresty; Guggilam C.	Burbank	IL		
Dev; Harsh	Chicago	IL		
Jambor; Richard	Chicago	IL		

US-CL-CURRENT: 392/312; 166/248, 392/301

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 19. Document ID: US 5463549 A

L40: Entry 19 of 36

File: USPT

Oct 31, 1995

US-PAT-NO: 5463549
DOCUMENT-IDENTIFIER: US 5463549 A

TITLE: Method and apparatus for determining permeability of subsurface formations

DATE-ISSUED: October 31, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dussan V.; Elizabeth B.	Ridgefield	CT		
Auzerais; Francois M.	Ridgefield	CT		
Anderson; Barbara I.	Brookfield Center	CT		

US-CL-CURRENT: 702/7; 324/339, 324/366, 702/12, 702/9

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	Index	Drawings
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☐ 20. Document ID: US 5420402 A

L40: Entry 20 of 36

File: USPT

May 30, 1995

US-PAT-NO: 5420402

DOCUMENT-IDENTIFIER: US 5420402 A

TITLE: Methods and apparatus to confine earth currents for recovery of subsurface volatiles and semi-volatiles

DATE-ISSUED: May 30, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bridges; Jack E.	Park Ridge	IL		
Sresty; Guggilam C.	Burbank	IL		

US-CL-CURRENT: 219/772; 166/248, 166/60, 219/778, 219/780

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	Index	Drawings
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☐ 21. Document ID: US 5182427 A

L40: Entry 21 of 36

File: USPT

Jan 26, 1993

US-PAT-NO: 5182427

DOCUMENT-IDENTIFIER: US 5182427 A

**** See image for Certificate of Correction ****

TITLE: Self-regulating heater utilizing ferrite-type body

DATE-ISSUED: January 26, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McGaffigan; Thomas H.	Half Moon Bay	CA		

US-CL-CURRENT: 219/663; 219/494, 219/553, 219/616, 219/635

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	Index	Drawings
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☐ 22. Document ID: US 4954920 A

L40: Entry 22 of 36

File: USPT

Sep 4, 1990

US-PAT-NO: 4954920

DOCUMENT-IDENTIFIER: US 4954920 A

TITLE: Thin film magnetic head

DATE-ISSUED: September 4, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamada; Kazuhiko	Tokyo			JP
Maruyama; Takao	Tokyo			JP

US-CL-CURRENT: 360/315

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 23. Document ID: US 4924187 A

L40: Entry 23 of 36

File: USPT

May 8, 1990

US-PAT-NO: 4924187

DOCUMENT-IDENTIFIER: US 4924187 A

TITLE: Method for measuring electrical anisotropy of a core sample from a
subterranean formation

DATE-ISSUED: May 8, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sprunt; Eve S.	Farmers Branch	TX		
Davis; R. Michael	Bedford	TX		
Kennedy; W. David	Dallas	TX		
Collins; Samuel H.	De Soto	TX		

US-CL-CURRENT: 324/376

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 24. Document ID: US 4748415 A

L40: Entry 24 of 36

File: USPT

May 31, 1988

US-PAT-NO: 4748415

DOCUMENT-IDENTIFIER: US 4748415 A

TITLE: Methods and apparatus for induction logging in cased boreholes

DATE-ISSUED: May 31, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vail, III; William B.	Bothell	WA		

US-CL-CURRENT: 324/339; 324/346, 324/369

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 25. Document ID: US 4743491 A

L40: Entry 25 of 36

File: USPT

May 10, 1988

US-PAT-NO: 4743491

DOCUMENT-IDENTIFIER: US 4743491 A

TITLE: Perpendicular magnetic recording medium and fabrication method therefor

DATE-ISSUED: May 10, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Asada; Seiichi	Kyoto			JP
Suzuki; Hiroyuki	Kokubunji			JP
Niihara; Toshio	Hachioji			JP
Yoshida; Kazuetsu	Kodaira			JP
Futamoto; Masaaki	Kanagawa			JP
Honda; Yukio	Fuchu			JP
Tsumita; Norikazu	Higashiyamato			JP
Shiiki; Kazuo	Kanagawa			JP

US-CL-CURRENT: 428/213; 204/192.15, 427/127, 427/128, 427/131, 428/336, 428/457,
428/694ST, 428/694TM, 428/694TS, 428/698, 428/701, 428/702, 428/900

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 26. Document ID: US 4693299 A

L40: Entry 26 of 36

File: USPT

Sep 15, 1987

US-PAT-NO: 4693299

DOCUMENT-IDENTIFIER: US 4693299 A

TITLE: Continuous metal casting apparatus

DATE-ISSUED: September 15, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kuznetsov; Stephen B.	Washington	DC		
Nathenson; Richard D.	Pittsburgh	PA		

US-CL-CURRENT: 164/502; 164/420, 164/440

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 27. Document ID: US 4661234 A

L40: Entry 27 of 36

File: USPT

Apr 28, 1987

US-PAT-NO: 4661234

DOCUMENT-IDENTIFIER: US 4661234 A

TITLE: Air-fuel ratio sensor and apparatus using the same

DATE-ISSUED: April 28, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takahashi; Hideaki	Aichi			JP
Kondo; Haruyoshi	Aichi			JP
Takeuchi; Takashi	Aichi			JP
Hayakawa; Kiyoharu	Aichi			JP

US-CL-CURRENT: 204/406; 204/412, 204/425, 204/426, 338/34

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 28. Document ID: US 3834943 A

L40: Entry 28 of 36

File: USOC

Sep 10, 1974

US-PAT-NO: 3834943

DOCUMENT-IDENTIFIER: US 3834943 A

TITLE: ELECTROLYTE-ELECTRODE UNIT FOR SOLID-ELECTROLYTE FUEL CELL AND PROCESS FOR THE MANUFACTURE THEREOF

DATE-ISSUED: September 10, 1974

INVENTOR-NAME: TANNENBERGER H; VAN DEN BERGHE P

US-CL-CURRENT: 429/33, 429/41

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 29. Document ID: US 3567808 A

L40: Entry 29 of 36

File: USOC

Mar 2, 1971

US-PAT-NO: 3567808

DOCUMENT-IDENTIFIER: US 3567808 A

TITLE: PRODUCTION OF LOW DENSITY-HIGH STRENGTH CARBON

DATE-ISSUED: March 2, 1971

INVENTOR-NAME: SMITH MARK J

US-CL-CURRENT: 264/29.7; 423/448

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	FIGS	Draw. C.
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☐ 30. Document ID: US 3479581 A

L40: Entry 30 of 36

File: USOC

Nov 18, 1969

US-PAT-NO: 3479581

DOCUMENT-IDENTIFIER: US 3479581 A

TITLE: VERTICAL RESISTIVITY LOGGING BY MEASURING THE ELECTRIC FIELD CREATED BY A TIME-VARYING MAGNETIC FIELD

DATE-ISSUED: November 18, 1969

INVENTOR-NAME: RUNGE RICHARD J

US-CL-CURRENT: 324/338; 324/366; 324/367

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	FIGS	Draw. C.
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☐ 31. Document ID: US 3344237 A

L40: Entry 31 of 36

File: USOC

Sep 26, 1967

US-PAT-NO: 3344237

DOCUMENT-IDENTIFIER: US 3344237 A

TITLE: OCR SCANNED DOCUMENT

DATE-ISSUED: September 26, 1967

INVENTOR-NAME: Name not available

US-CL-CURRENT: 360/126; 29/603.14, 29/603.15, 29/603.25, 29/606, 336/200, 360/119, 360/123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Draw
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☐ 32. Document ID: US 2786178 A

L40: Entry 32 of 36

File: USOC

Mar 19, 1957

US-PAT-NO: 2786178

DOCUMENT-IDENTIFIER: US 2786178 A

TITLE: Apparatus for electrical well logging

DATE-ISSUED: March 19, 1957

INVENTOR-NAME: HENRI-GEORGES DOLL

US-CL-CURRENT: 324/367

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Draw
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☐ 33. Document ID: US 2784349 A

L40: Entry 33 of 36

File: USOC

Mar 5, 1957

US-PAT-NO: 2784349

DOCUMENT-IDENTIFIER: US 2784349 A

TITLE: Electric arc welding

DATE-ISSUED: March 5, 1957

INVENTOR-NAME: ANDERSON NELSON E

US-CL-CURRENT: 315/176; 123/606, 219/130.4, 315/257

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Draw
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☐ 34. Document ID: US 2454519 A

L40: Entry 34 of 36

File: USOC

Nov 23, 1948

US-PAT-NO: 2454519

DOCUMENT-IDENTIFIER: US 2454519 A

TITLE: Combination step-by-step and induction motor

DATE-ISSUED: November 23, 1948

INVENTOR-NAME: MCNANEY JOSEPH T

US-CL-CURRENT: 318/695; 310/49R

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Page
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☐ 35. Document ID: US 2354331 A

L40: Entry 35 of 36

File: USOC

Jul 25, 1944

US-PAT-NO: 2354331

DOCUMENT-IDENTIFIER: US 2354331 A

TITLE: High-frequency ferroinductor

DATE-ISSUED: July 25, 1944

INVENTOR-NAME: POLYDOROFF WLADIMIR J

US-CL-CURRENT: 336/218;

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 4661234 A

Using default format because multiple data bases are involved.

L41: Entry 1 of 4

File: USPT

Apr 28, 1987

US-PAT-NO: 4661234

DOCUMENT-IDENTIFIER: US 4661234 A

TITLE: Air-fuel ratio sensor and apparatus using the same

DATE-ISSUED: April 28, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takahashi; Hideaki	Aichi			JP
Kondo; Haruyoshi	Aichi			JP
Takeuchi; Takashi	Aichi			JP
Hayakawa; Kiyoharu	Aichi			JP

US-CL-CURRENT: 204/406; 204/412, 204/425, 204/426, 338/34

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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☐ 2. Document ID: US 3834943 A

L41: Entry 2 of 4

File: USOC

Sep 10, 1974

US-PAT-NO: 3834943

DOCUMENT-IDENTIFIER: US 3834943 A

TITLE: ELECTROLYTE-ELECTRODE UNIT FOR SOLID-ELECTROLYTE FUEL CELL AND PROCESS FOR THE MANUFACTURE THEREOF

DATE-ISSUED: September 10, 1974

INVENTOR-NAME: TANNENBERGER H; VAN DEN BERGHE P

US-CL-CURRENT: 429/33, 429/41

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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☐ 3. Document ID: US 3479581 A

L41: Entry 3 of 4

File: USOC

Nov 18, 1969

US-PAT-NO: 3479581

DOCUMENT-IDENTIFIER: US 3479581 A

TITLE: VERTICAL RESISTIVITY LOGGING BY MEASURING THE ELECTRIC FIELD CREATED BY A TIME-VARYING MAGNETIC FIELD

DATE-ISSUED: November 18, 1969

INVENTOR-NAME: RUNGE RICHARD J

US-CL-CURRENT: 324/338; 324/366, 324/367

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	--------

☐ 4. Document ID: US 2784349 A

L41: Entry 4 of 4

File: USOC

Mar 5, 1957

US-PAT-NO: 2784349

DOCUMENT-IDENTIFIER: US 2784349 A

TITLE: Electric arc welding

DATE-ISSUED: March 5, 1957

INVENTOR-NAME: ANDERSON NELSON E

US-CL-CURRENT: 315/176; 123/606, 219/130.4, 315/257

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
PARALLEL	3218948
PARALLELS	17322
PERMEABILITY	207899
PERMEABILITIES	8374
PERMEABILITYS	4
RATIO	2237052
RATIOS	421240
HORIZONTAL\$3	0
HORIZONTAL	2020413

HORIZONTALA	32
HORIZONTALAD	1
(L40 AND ((HORIZONTAL\$3 OR VERTICAL\$3 OR TRANSVERS\$5 OR LONGITUD\$4 OR PARALLEL OR PERPENDICULAR\$2 OR LONGITUDINAL\$2) WITH (RESISTIV\$5) WITH (PERMEABILITY OR PERMEABL\$3) WITH (RATIO))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 4661234 A

Using default format because multiple data bases are involved.

L42: Entry 1 of 5

File: USPT

Apr 28, 1987

US-PAT-NO: 4661234

DOCUMENT-IDENTIFIER: US 4661234 A

TITLE: Air-fuel ratio sensor and apparatus using the same

DATE-ISSUED: April 28, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takahashi; Hideaki	Aichi			JP
Kondo; Haruyoshi	Aichi			JP
Takeuchi; Takashi	Aichi			JP
Hayakawa; Kiyoharu	Aichi			JP

US-CL-CURRENT: 204/406, 204/412, 204/425, 204/426, 338/34

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Key	Draw
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☐ 2. Document ID: US 3834943 A

L42: Entry 2 of 5

File: USOC

Sep 10, 1974

US-PAT-NO: 3834943

DOCUMENT-IDENTIFIER: US 3834943 A

TITLE: ELECTROLYTE-ELECTRODE UNIT FOR SOLID-ELECTROLYTE FUEL CELL AND PROCESS FOR THE MANUFACTURE THEREOF

DATE-ISSUED: September 10, 1974

INVENTOR-NAME: TANNENBERGER H; VAN DEN BERGHE P

US-CL-CURRENT: 429/33, 429/41

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Key	Draw
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☐ 3. Document ID: US 3479581 A

L42: Entry 3 of 5

File: USOC

Nov 18, 1969

US-PAT-NO: 3479581

DOCUMENT-IDENTIFIER: US 3479581 A

TITLE: VERTICAL RESISTIVITY LOGGING BY MEASURING THE ELECTRIC FIELD CREATED BY A TIME-VARYING MAGNETIC FIELD

DATE-ISSUED: November 18, 1969

INVENTOR-NAME: RUNGE RICHARD J

US-CL-CURRENT: 324/338; 324/366, 324/367

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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☐ 4. Document ID: US 3037105 A

L42: Entry 4 of 5

File: USOC

May 29, 1962

US-PAT-NO: 3037105

DOCUMENT-IDENTIFIER: US 3037105 A

TITLE: Methods and apparatus for the induction welding of tubing

DATE-ISSUED: May 29, 1962

INVENTOR-NAME: FRED KOHLER

US-CL-CURRENT: 219/612; 219/613

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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☐ 5. Document ID: US 2784349 A

L42: Entry 5 of 5

File: USOC

Mar 5, 1957

US-PAT-NO: 2784349

DOCUMENT-IDENTIFIER: US 2784349 A

TITLE: Electric arc welding

DATE-ISSUED: March 5, 1957

INVENTOR-NAME: ANDERSON NELSON E

US-CL-CURRENT: 315/176; 123/606, 219/130.4, 315/257

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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Term	Documents
PARALLEL	3218948
PARALLELS	17322
PERMEABILITY	207899
PERMEABILITIES	8374
PERMEABILITYS	4
RATIO	2237052
RATIOS	421240
HORIZONTAL\$3	0
HORIZONTAL	2020413
HORIZONTALA	32
HORIZONTALAD	1
(L37 AND ((HORIZONTAL\$3 OR VERTICAL\$3 OR TRANSVERS\$5 OR LONGITUD\$4 OR PARALLEL OR PERPENDICULAR\$2 OR LONGITUDINAL\$2) WITH (RESISTIV\$5) WITH (PERMEABILITY OR PERMEABL\$3) WITH (RATIO))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5

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☐ 1. Document ID: US 20050024060 A1

Using default format because multiple data bases are involved.

L46: Entry 1 of 14

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050024060
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050024060 A1

TITLE: Electromagnetic wave resistivity tool having a tilted antenna for
geosteering within a desired payzone

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bittar, Michael S.	Houston	TX	US	

US-CL-CURRENT: 324/337

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIG	Drawings
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☐ 2. Document ID: US 20040027131 A1

L46: Entry 2 of 14

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040027131
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040027131 A1

TITLE: Electromagnetic wave resistivity tool having a tilted antenna for
geosteering within a desired payzone

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bittar, Michael S.	Houston	TX	US	

US-CL-CURRENT: 324/338; 175/45, 324/343

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIG	Drawings
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☐ 3. Document ID: US 20030051914 A1

L46: Entry 3 of 14

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030051914
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030051914 A1

TITLE: Electromagnetic wave resistivity tool having a tilted antenna for
geosteering within a desired payzone

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bittar, Michael S.	Houston	TX	US	

US-CL-CURRENT: 175/45; 324/337

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 4. Document ID: US 20020186013 A1

L46: Entry 4 of 14

File: PGPB

Dec 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020186013
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020186013 A1

TITLE: Method of determining formation anisotropy in deviated wells using
separation of induction mode

PUBLICATION-DATE: December 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tabarovsky, Leonty A.	Houston	TX	US	
Epov, Mikhail	Novosibirsk	TX	RU	
Rabinovich, Michael B.	Houston		US	

US-CL-CURRENT: 324/343

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 5. Document ID: US 6686736 B2

L46: Entry 5 of 14

File: USPT

Feb 3, 2004

US-PAT-NO: 6686736

DOCUMENT-IDENTIFIER: US 6686736 B2

TITLE: Combined characterization and inversion of reservoir parameters from nuclear, NMR and resistivity measurements

DATE-ISSUED: February 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schoen; Juergen S.	Leoben			AT
Fanini; Otto N.	Houston	TX		
Georgi; Daniel	Houston	TX		

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Know	Draw D
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☐ 6. Document ID: US 6643589 B2

L46: Entry 6 of 14

File: USPT

Nov 4, 2003

US-PAT-NO: 6643589

DOCUMENT-IDENTIFIER: US 6643589 B2

TITLE: Simultaneous determination of formation angles and anisotropic resistivity using multi-component induction logging data

DATE-ISSUED: November 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zhang; Zhiyi	Houston	TX		
Yu; Liming	Stafford	TX		
Tabarovsky; Leonty Abraham	Houston	TX		
Kriegshauser; Berthold	Houston	TX		

US-CL-CURRENT: 702/7; 702/10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Know	Draw D
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☐ 7. Document ID: US 6636045 B2

L46: Entry 7 of 14

File: USPT

Oct 21, 2003

US-PAT-NO: 6636045

DOCUMENT-IDENTIFIER: US 6636045 B2

TITLE: Method of determining formation anisotropy in deviated wells using separation of induction mode

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tabarovsky; Leonty A.	Houston	TX		
Epov; Mikhail	Novosibirsk			RU
Rabinovich; Michael B.	Houston	TX		

US-CL-CURRENT: 324/343; 702/7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Draw	Draw
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☐ 8. Document ID: US 6591194 B1

L46: Entry 8 of 14

File: USPT

Jul 8, 2003

US-PAT-NO: 6591194

DOCUMENT-IDENTIFIER: US 6591194 B1

TITLE: Vertical 1-D inversion with thin layers of equal thickness

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yu; Liming	Stafford	TX		
Kriegshauser; Berthold	Houston	TX		
Fanini; Otto	Houston	TX		
Xiao; Jiaqi	Houston	TX		

US-CL-CURRENT: 702/7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Draw	Draw
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☐ 9. Document ID: US 6574562 B2

L46: Entry 9 of 14

File: USPT

Jun 3, 2003

US-PAT-NO: 6574562

DOCUMENT-IDENTIFIER: US 6574562 B2

TITLE: Determination of formation anisotropy using multi-frequency processing of induction measurements with transverse induction coils

DATE-ISSUED: June 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tabarovsky; Leonty A.	Houston	TX		
Rabinovich; Michael B.	Houston	TX		

US-CL-CURRENT: 702/7; 702/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Drawings
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☐ 10. Document ID: US 6476609 B1

L46: Entry 10 of 14

File: USPT

Nov 5, 2002

US-PAT-NO: 6476609

DOCUMENT-IDENTIFIER: US 6476609 B1

TITLE: Electromagnetic wave resistivity tool having a tilted antenna for geosteering within a desired payzone

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bittar; Michael S.	Houston	TX		

US-CL-CURRENT: 324/338; 175/45, 324/343, 702/7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Drawings
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☐ 11. Document ID: US 6470274 B1

L46: Entry 11 of 14

File: USPT

Oct 22, 2002

US-PAT-NO: 6470274

DOCUMENT-IDENTIFIER: US 6470274 B1

TITLE: Water saturation and sand fraction determination from borehole resistivity imaging tool, transverse induction logging and a tensorial dual water saturation model

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mollison; Richard A.	Tomball	TX		
Fanini; Otto N.	Houston	TX		
Kriegshauser; Berthold	Houston	TX		
Pavlovic; Milomir	Houston	TX		

US-CL-CURRENT: 702/7; 702/12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIGS	Drawings
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☐ 12. Document ID: US 6163155 A

L46: Entry 12 of 14

File: USPT

Dec 19, 2000

US-PAT-NO: 6163155

DOCUMENT-IDENTIFIER: US 6163155 A

TITLE: Electromagnetic wave resistivity tool having a tilted antenna for determining the horizontal and vertical resistivities and relative dip angle in anisotropic earth formations

DATE-ISSUED: December 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bittar; Michael S.	Houston	TX		

US-CL-CURRENT: 324/338; 324/339, 324/343, 702/7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D
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☐ 13. Document ID: US 6092024 A

L46: Entry 13 of 14

File: USPT

Jul 18, 2000

US-PAT-NO: 6092024

DOCUMENT-IDENTIFIER: US 6092024 A

TITLE: Method and apparatus for determining resistivity and dielectric anisotropy parameters of earth formations by using multifrequency and/or multispacing measurements

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wu; Jian-Qun	Houston	TX		

US-CL-CURRENT: 702/7

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw D
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☐ 14. Document ID: US 5656930 A

L46: Entry 14 of 14

File: USPT

Aug 12, 1997

US-PAT-NO: 5656930DOCUMENT-IDENTIFIER: US 5656930 A

TITLE: Method for determining the anisotropic properties of a subterranean formation consisting of a thinly laminated sand/shale sequence using an induction type logging tool

DATE-ISSUED: August 12, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hagiwara; Teruhiko	Houston	TX		

US-CL-CURRENT: 324/339; 324/338, 702/7

Full	Title	Collection	Print	Review	Classification	Date	Reference	Claims	AMC	Drawings
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Fwd Refs

Bkwd Refs

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Term	Documents
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PERMEABILITYS	4
PERMEABL\$3	0
PERMEABL	2
PERMEABLE	23414
PERMEABLES	1
PERMEABLETO	1
PERMEABLITY	18
(5656930 AND (PERMEABILITY OR PERMEABL\$3)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	14

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